Riding the Digital Explosion

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Internet Evolution on Steroids

◊ 1990 Messaging   (mail, netnews)   but wanted searchable archives
◊ 1991 Db systems   (WAIS)   but wanted browsing
◊ 1992 Browsing & Db (Gopher)   but wanted richer presentation
◊ 1993 Hypertext & Db (Web)   but wanted programmable UI
◊ 1995 Mobile code   (Java?)   but....

Constant need: Access to data from multiple systems

The Future of Information Technology

◊ **Digital**

◊ **Personal**

◊ **Ubiquitous**

◊ **Multimedia: text ->video**

Communications Revolution: Digital Data

◊ Today the Internet: 56kb-1mb/sec

◊ Tomorrow:
- Cable: 100stet/sec
- CamCorders: 100kb/sec
- Satellite Dishes: gb/sec

Computer Revolution

◊ **Today: desktop workstations, super mainframes**

◊ **Tomorrow: ubiquitous communications**

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Data Revolution

◊ **Today: newspapers, 100 channels of TV**

◊ **Tomorrow: merging TV, Telephone, and Databases**

◊ *Everyone is a publisher*

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Making sense of it all

◊ **Internal coordination**

◊ **Using external sources: standards standards standards**

Coming Problems

◊ **Proprietary vs. open systems**

◊ **Infotainment ->Productivity tool**
  -Cross server navigation: 52,000 is too many
  -Personalization
  -Packaged delivery

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GILS' Solution

◊ Put the government info behind the open systems.

◊ Don't invest in User Interface: make gov. databases available to all

◊ Post it once: HTTP, Gopher, Z39.50, Fax etc. from one DB

◊ Enable Active Clients: Towards Agents

Interoperability with other systems

◊ **Web, Java. . .**

◊ **Online Services: AOL, Microsoft Network, etc.**

◊ **Lotus notes**

◊ **Cable systems**